For file.

Noted by A.W.F.

Union Switch & Signal Co.

SWISSVALE, PA.

Subject JUNCTION BOX AND BASE FOR APPLICATION TO BOTTOM OF SIGNAL POSTS.	Union Development
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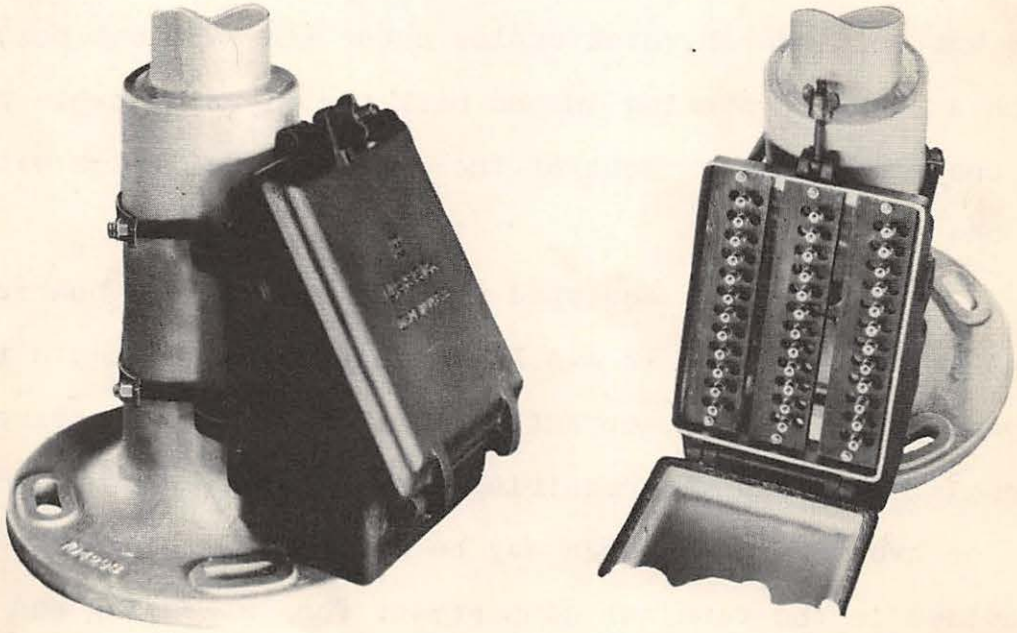
	3 Sheets

Terminating parkway type cables in the base of posts of various types of signal apparatus has advantages that are becoming more and more apparent. This type of installation eliminates the separately mounted junction box and the difficult problems of providing a satisfactory connection between the signal pole and box. To meet the demand for this type of installation, the Union Switch & Signal Company has introduced a junction box for application to the base-of-post of high signals.



Closed and open views of Junction Box and Base for application to bottom of Signal Posts.

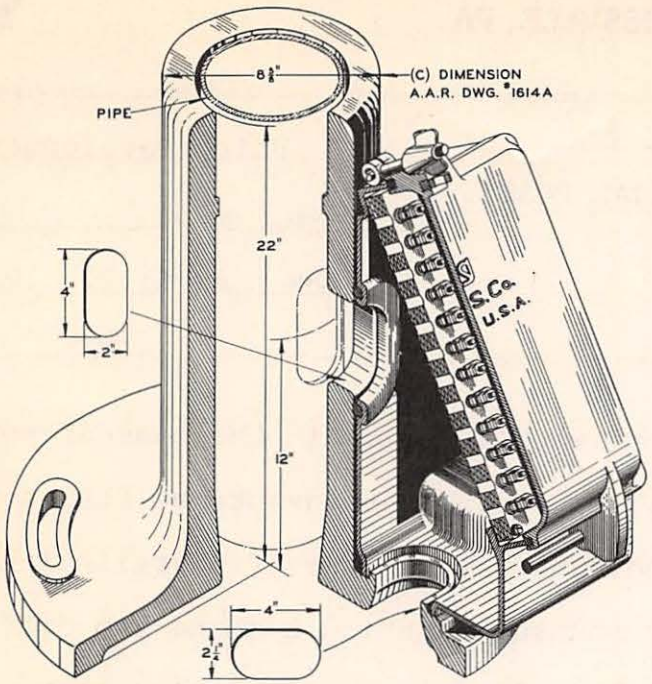


Fig. 1 - Section View of Junction Box and Base.

This junction box, Fig. 1, is designed for application to bases of the type shown on A.A.R. Drawing No. 1614A, in which the outside diameter (C) of the socket is 8-5/8". This dimension is used in the Union design of bases for both 5" and 6" pipe. The box is provided with a 2-1/4" by 4" opening in the bottom, through which cables enter the terminal box, and with a 2" by 4" opening in the back for wires or cable running to the signal case. Both of these openings coincide with holes in the base.

The box is equipped with three terminal boards, each having a capacity of 12 A.A.R. 14/24 terminal posts, a total capacity of 36 posts, or sufficient for three-unit searchlight signals. For signals requiring less terminal post capacity, one or two terminal boards may be omitted. Ample space is provided in the terminal compartment for potheading and sealing cables, as well as for slack wire.

The base-of-post junction box is designed to rest on a boss in the base of the socket, and to be clamped to the socket with hook-bolts. The design illustrated is arranged for the use of the wedge-on type terminal lugs, but this particular type of terminal connector can be omitted and the wires brought directly to the terminal posts with other designs of terminal connectors. Ample space is provided for tags to identify the wires to each terminal post.

The cover is arranged for padlocking, and is designed to lie open in a horizontal position, thereby providing convenient tool space when working on the terminals. Packing is provided in the cover to assure a tight seal for the compartment, and tapped bosses are provided in both sides of the box for the insertion of ventilators, if service conditions indicate that they are necessary. A suitable gasket seal is provided between the junction box and the socket base.

ORDERING INSTRUCTIONS:

When ordering the junction box and the signal post base, please mention whether 1, 2, or 3 twelve-way terminal boards are wanted, and whether the base is to fit 5" or 6" pipe.

W. R. Cadwallader 4/27/38

Vice Pres. & Gen'l Mgr.